

September 22, 2009

Mr. James A. Turi, Manager  
Thomas Jefferson Site Office  
12000 Jefferson Avenue, Suite 14  
Newport News, VA 23606

**Subject:** NOTICE OF APPLICATION OF CATEGORICAL EXCLUSION CEBAF-005-94 (NEPA CX B1.15), TJNAF-008-96 (NEPA CX B1.10), TJNAF-016-00, REV. 1 (NEPA CX B1.10, B1.30, B6.5, B6.6 AND UNDER CX-GEN-011 B1.3, 1.27, 2.1, 2.2, AND 2.3), AND CX-GEN-012 (NEPA 1.11, 1.15, 1.31) TO THE EXPERIMENTAL STAGING BUILDING PROJECT

**Reference:** CXA-2009-007

Dear Mr. Turi:

The Experimental Staging Building Project has been reviewed to determine compliance with the National Environmental Policy Act (NEPA).

The existing NEPA Categorical Exclusions (CX) B1.3, B1.10, B1.11, B1.15, B1.27, B1.30, B1.31, B2.1, B2.2, B2.3, B6.5, and B6.6 have been applied to this project. A copy of the record of this action is enclosed.

Patty Hunt, a member of your staff has been involved in discussions related to this NEPA activity, and the review has been completed in accordance with the Office of Science Management System NEPA Procedure 4, *Implementing Generic Exclusion Requirements*. Please contact me or Bill Rainey X7898 if you have any questions.

Sincerely,

  
Mary K. Logue  
Associate Director, ESH&Q

Cc:

R. May  
L. Even  
W. Rainey  
R. Sprouse  
P. Hunt, TJSO

NOTICE OF APPLICATION  
OF CATEGORICAL EXCLUSIONS CEBAF-005-94, TJNAF-008-96, TJNAF-016-00, REV. 1,  
AND CX-GEN-012 TO THE EXPERIMENTAL STAGING BUILDING PROJECT

(REFERENCE NEPA (CX) B1.3, B1.10, B1.11, B1.15, B1.27, B1.30, B1.31, B2.1, B2.2, B2.3,  
B6.5, and B6.6)

Description of Proposed Effort:

This project involves the construction of a 15,000 SF single story pre-engineered metal building to support multiple activities. Energy saving features will be integrated in the project. The building uses include standard warehousing and technical use actions. Activated material and radioactive waste will be managed within the building or in a controlled adjacent location. Controlled areas will be established and managed according to RadCon procedures.

Approximately 95,000 SF of land will be disturbed for utility lines, aprons, parking, a new access road, and storm water drainage channels to accommodate stormwater runoff.

Impacts to the Environment:

There will be impacts to the environment during construction. Impacts from building operations will be similar to ongoing activities including that due to transferring radioactive waste management to this facility. At completion of construction, the project will result in about 49,000 SF of additional impervious area. There are no expected negative impacts from the additional storm water flow or from sediments to downstream storm channels.

Number and Title of Applicable Categorical Exclusions

B1.3 Routine maintenance activities and custodial services for buildings, structures, rights-of-way, infrastructures (e.g., pathways, roads, and railroads), vehicles and equipment, and localized vegetation and pest control, during which operations may be suspended and resumed. Custodial services are activities to preserve facility appearance, working conditions, and sanitation, such as cleaning, window washing, lawn mowing, trash collection, painting, and snow removal. Routine maintenance activities, corrective (that is, repair), preventive, and predictive, are required to maintain and preserve buildings, structures, infrastructures, and equipment in a condition suitable or a facility to be used for its designated purpose. Routine maintenance may result in replacement to the extent that replacement is in kind and is not a substantial upgrade or improvement. In kind replacement includes installation of new components to replace outmoded components if the replacement does not result in a significant change in the expected useful life, design capacity, or function of the facility. Routine maintenance does not include replacement of major component that significantly extends the originally intended useful life of a facility (for

example, it does not include the replacement of a reactor vessel near the end of its useful life).

Routine maintenance activities include, but are not limited to:

- (a) Repair of facility equipment, such as lathes, mills, pumps, and presses;
- (b) Door and window repair or replacement;
- (c) Wall, ceiling, or floor repair;
- (d) Reroofing;
- (e) Plumbing, electrical utility, and telephone service repair;
- (f) Routine replacement of high-efficiency particulate air filters;
- (g) Inspection and/or treatment of currently installed utility poles;
- (h) Repair of road embankments;
- (i) Repair or replacement of fire protection sprinkler systems;
- (j) Road and parking area resurfacing, including construction of temporary access to facilitate resurfacing;
- (k) Erosion control and soil stabilization measures (such as reseeded and revegetation);
- (l) Surveillance and maintenance of surplus facilities in accordance with DOE Order 5820.2, "Radioactive Waste Management";
- (m) Repair and maintenance of transmission facilities, including replacement of conductors of the same nominal voltage, poles, circuit breakers, transformers, capacitors, crossarms, insulators, and downed transmission lines, in accordance, where appropriate, with 40 CFR part 761 Polychlorinated Biphenyls Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions);
- (n) Routine testing and calibration of facility components, subsystems, or portable equipment (including but not limited to, control valves, in-core monitoring devices, transformers, capacitors, monitoring wells, lysimeters, weather stations, and flumes); and
- (o) Routine decontamination of the surfaces of equipment, rooms, hot cells, or other interior surfaces of buildings (by such activities as wiping with rags, using strippable latex, and minor vacuuming), including removal of contaminated intact equipment and other materials (other than spent nuclear fuel or special nuclear material in nuclear reactors).

B1.10 Routine, onsite storage at an existing facility of activated equipment and material (including lead) used at that facility, to allow reuse after decay of radioisotopes with short half-lives.

B1.11 Installation of fencing, including that for border marking, that will not adversely affect wildlife movements or surface water flow.

B1.15 Siting, construction (or modification), and operation of support buildings and support structures (including, but not limited to, trailers and prefabricated buildings) within or contiguous to an already developed area (where active utilities and currently used roads are readily accessible). Covered support buildings and structures include those for office purposes; parking; cafeteria services; education and training; visitor reception; computer and data processing services; employee health services or recreation activities; routine maintenance activities; storage of supplies and equipment for administrative services and routine maintenance activities; security (including security posts); fire protection; and similar support purposes, but excluding facilities for waste storage activities, except as provided in other parts of this appendix.

B1.27 Activities that are required for the disconnection of utility services such as water, steam, telecommunications, and electrical power after it has been determined that the continued operation of these systems is not needed for safety.

B1.30 Transfer actions, in which the predominant activity is transportation, and in which the amount and type of materials, equipment or waste to be moved is small and incidental to the amount of such materials, equipment, or waste that is already a part of ongoing operations at the receiving site. Such transfers are not regularly scheduled as part of ongoing routine operations.

B1.31 Relocation of machinery and equipment, such as analytical laboratory apparatus, electronic hardware, maintenance equipment, and health and safety equipment, including minor construction necessary for removal and installation, where uses of the relocated items will be similar to their former uses and consistent with the general missions of the receiving structure.

B2.1 Modifications of an existing structure to enhance workplace habitability (including, but not limited to: improvements to lighting, radiation shielding, or heating/ventilating/air conditioning and its instrumentation; and noise reduction).

B2.2 Installation of, or improvements to, building and equipment instrumentation (including, but not limited to, remote control panels, remote monitoring capability, alarm and surveillance systems, control systems to provide automatic shutdown, fire detection and protection systems, announcement and emergency warning systems, criticality and radiation monitors and alarms, and safeguards and security equipment).

B2.3 Installation of, or improvements to, equipment for personnel safety and health, including, but not limited to, eye washes, safety showers, radiation monitoring devices, and fumehoods and associated collection and exhaust systems, provided that emissions would not increase.

B6.5 Siting, construction (or modification or expansion), operation, and decommissioning of an onsite facility for characterizing and sorting previously packaged waste or for overpacking waste, other than high-level radioactive waste, if operations do not involve unpacking waste. These actions do not include waste storage (covered under B6.4, B6.6, B6.10, and C16) or the handling of spent nuclear fuel.

B6.6 Modification (excluding increases in capacity) of an existing structure used for storing, packaging, or repacking waste other than high-level radioactive waste or spent nuclear fuel, to handle the same class of waste as currently handled at that structure.

*CEBAF-005-94 (NEPA CX B1.15) - original determination date Nov. 23, 1994*  
*TJNAF-008-96 (NEPA CX B1.10) - original determination date Oct. 22, 1996*  
*TJNAF-016-00, REV. 1 (NEPA CX B1.10, B1.30, B6.5, B6.6 AND B1.3, 1.27, 2.1, 2.2, 2.3*  
*UNDER CX-GEN-011) - original determination date July 7, 2000*  
*CX-GEN-012 (NEPA 1.11, 1.15, 1.31) - original determination date Oct. 7, 1997*

Number and Title of Applicable Environmental Assessments

DOE/EA-0257, Environmental Assessment (EA) for the Continuous Electron Beam Accelerator Facility, Newport News, Virginia January 1987

DOE/EA-1534, EA for Proposed Upgrades and Improvement Projects at the Thomas Jefferson National Accelerator Facility, Newport News, Virginia January 2007

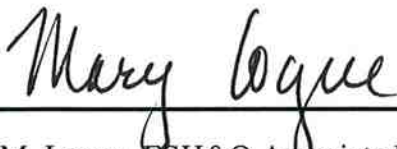
**Reference:** CXA-2009-007



Christine Snetter, Project Representative

9/22/09

Date



M. Logue, ESH&Q Associate Director

9/22/09

Date